

**SPECIFICATION AMENDMENTS**

On page 5, kindly amend the first full paragraph as follows.

The data input to each scan chain is provided by a weight generator (WG) circuit 112 of the present invention that is portrayed as weight generators 112a - 112n wherein as portrayed, WG 112a provides an input to a scan chain 104a, WG 112b provides an input to a scan chain [112b] 104b, WG 112c provides an input to a scan chain [112c] 104c, and WG 112n provides an input to a scan chain 104n. The design of an embodiment of a weight generator 112 is particularly taught presently with reference to Figure 2. Preferably each weight generator 112 is on-die. Each weight generator 112i (wherein "i" signifies any implemented weight generator) provides a determined pseudo-random weighted input to the scan chain 104i to which it is coupled, "weight" meaning here the probability of obtaining a one bit value for each bit in the input to the scan chain 104i.